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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,329	02/19/2002	Kenichi Sato	25-192	1996
7	7590 02/08/2005		EXAM	INER
Arnold International P.O. BOX 129		1	JELINEK, BRIAN J	
Great Falls, V			ART UNIT	PAPER NUMBER
,			2615	
			DATE MAILED: 02/08/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/076,329	SATO, KENICHI				
Office Action Summary	Examiner	Art Unit				
	Brian Jelinek					
The MAILING DATE of this communication app		2615				
Period for Reply		orrospondonos dadross				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the applicati	on					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	•					
10)⊠ The drawing(s) filed on <u>19 February 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3.☐ Copies of the certified copies of the prior						
application from the International Bureau	•	d III tills Mational Stage				
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
Attachment(s)						
Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2/19/2002.	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)				
Detact and Tardamed Office						

Application/Control Number: 10/076,329

Art Unit: 2615

DETAILED ACTION

This is a first office action in response to application no. 10/076,329 filed on 2/19/2002 in which claims 1-2 are presented for examination.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Levy (U.S. Pat. No. 6,618,093).

Regarding claim 1, Levy discloses an electronic camera that includes an optical system (Fig. 1, element 2) for forming an image of an object, and an electronic image

pick-up device for capturing image information by arranging multiple detecting elements on an image pick-up surface (Fig. 1, element 5), the improvement of: having said image pick-up surface be non-planar and correspond in shape to the curvature of field of said optical system (Fig. 1; col. 4, lines 4-50).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Levy (U.S. Pat. No. 6,618,093) in view of Bietry et al. (U.S. Pat. No. 5,604,639).

Regarding claim 2, Levy discloses a photosenser having a shape that corresponds with the shape of the focal plane of the lens system (col. 4, lines 18-24). Levy does not disclose the image pick-up surface has a radius of curvature which satisfies the following condition: |R| < 20*f, where R is the radius of curvature of the image pick-up surface, and f is the focal length of the optical system.

However, Bietry et al. discloses a camera with a curved image surface (Fig. 1, element 109) where an image pick-up surface has a radius of curvature which satisfies the following condition: |R| < 20*f, where R is the radius of curvature of the image pick-up surface, and f is the focal length of the optical system. Specifically, Bietry et al.

discloses a focal length of the optical system is 31.89 mm (col. 3, lines 61-62) and a curvature in the range of 90 m to 120 mm (col. 4, lines 45-50). One of ordinary skill in the art would have provided the stated focal length and radius of curvature for the purpose of obtaining the best focus in consideration of the geometric depth of focus and the natural Petvzal curvature of the lens system (col. 4, lines 45-50). As a result, it would have been obvious to one of ordinary skill in the art at the time of the invention to have provided a radius of curvature less than twenty times the focal length in order to obtain the best focus in consideration of the geometric depth of focus and the natural Petzval curvature of the lens system.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Jelinek whose telephone number is (703) 305-4724 until 3/2/2005, and (571)272-7366 thereafter. The examiner can normally be reached on M-F 8:00 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's acting supervisor, Thai Tran can be reached at (703) 305-4725. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian Jelinek 2/7/2005

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